

Patent Abstracts of Japan

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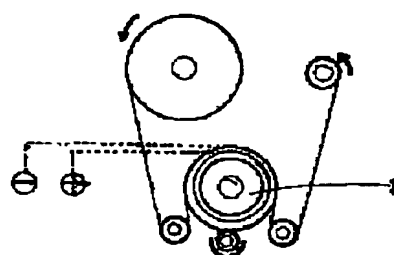
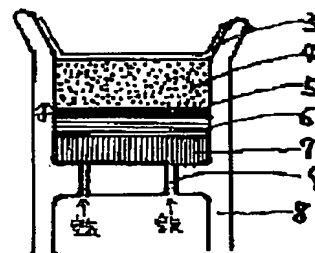
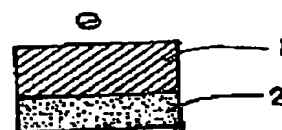
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TITLE : BATTERY CAPABLE OF CONTINUOUS
USE



ABSTRACT : PROBLEM TO BE SOLVED: To provide a battery which can be used continuously as a main power source of an electric vehicle by combining a tape-like anode and a drum-like cathode having a specified structure.

SOLUTION: An anode is produced by forming a material 1 having good electric conductivity into a tape-shape and forming a thin film of a metal 2 (e.g. Zn, Fe, Al) to generate oxidization electricity on the surface. A cathode (5: air electrode) is produced by wrapping an air diffusion paper sheet 7, around a drum-like pulley 8 on which ventilation holes 9 are formed, further wrapping a water-repelling film 6, wrapping the resultant surface in activated carbon impregnated with an oxidation catalyst, and then wrapping the resultant body in a separator 3. The metal face of the anode is wrapped around the separator 3 face of the cathode with pressure-contact to generate electricity. When voltage is lowered, the drum is rotated to renew the anode, so that electricity generation can be continuously carried out.

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